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CITY OF HEREFORD

1954

Annual Report  
of the  
Medical Officer of  
Health



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# CITY OF HEREFORD

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## **HEALTH COMMITTEE**

Councillor T. W. GRIMMER, Mayor.

Alderman R. C. MONKLEY, Chairman.

Councillor E. O. S. D'LOIRA, Deputy Chairman.

Councillor Mrs. J. AINSLIE.

Councillor Mrs. K. PIGOTT.

Councillor Mrs. W. H. HIGGINBOTHAM.

Councillor W. H. BLUNDSTONE.

Councillor T. R. STEPHENS.

Councillor H. C. WATKINS.

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## **HOUSING ACTS COMMITTEE**

Councillor T. W. GRIMMER, Mayor.

Alderman W. PIGOTT, Chairman.

Councillor C. J. GOODING, Deputy Chairman.

Alderman T. LINDSEY PRICE.

Councillor Rev. Preb.

L. J. B. SNELL.

Councillor Mrs. J. AINLIE.

Councillor J. R. THOMPSON

Councillor D. SHAW.

Councillor H. C. WATKINS.

T. B. FELTHAM, Town Clerk.

## CITY OF HEREFORD

1954

**GENERAL PROVISION OF HEALTH SERVICE  
FOR THE AREA**

<i>Name and Qualifications</i>	<i>Office held</i>	<i>Whole or Part</i>	<i>Other Public Office</i>
R. T. THOMSON, M.A., M.B., Ch.B., D.P.H.	Medical Officer of Health	Part	Assistant County Medical Officer
F. G. D. CHALMERS, M.A., B.Sc., F.I.C.	City Public Analyst	Part	
J. LEACH, M.R.S.I., M.S.I.A.	Chief Sanitary Inspector	Whole	
C. E. ATTFIELD M.S.I.A., A.R.S.I.	Additional Sanitary Inspector	Whole	
A. E. EAMES, M.R.S.I., M.S.I.A.	Additional Sanitary Inspector	Whole	
C. D. LOADER	Clerk	Whole	
Miss D. E. WHITEFOOT	Clerk	Whole	

*Public Health Department,  
Town Hall Annexe.*

TO THE  
**RIGHT WORSHIPFUL THE MAYOR, ALDERMEN  
AND COUNCILLORS OF THE CITY OF HEREFORD**

Your Worship, Ladies and Gentlemen,

I have the honour to submit to you the Annual Report on the Health of the City for the year 1954, as required by the Sanitary Officers (Outside London) Regulations, 1935, on the lines laid down in the Ministry of Health Circular 42/51. It includes the report on sanitary matters by the Chief Sanitary Inspector.

**Vital Statistics.**

In 1954 there were slightly fewer live births (504) in the City than in the previous year, and the live birth rate for the year was 15.4 per 1,000 estimated population (crude) ; the corrected rate being 14.63 per 1,000 estimated population. The number of still births which occurred was 12, an increase of 3 upon that figure for the previous year.

The Registrar General's estimate of the population for the year is 32,720, and the gross density of population is 6.5 persons per acre. The average number of persons per inhabited house is 3.45. The natural increase of population for the year, that is the excess of live births over deaths, is 119.

The total number of deaths allocated to the City, after deducting the deaths of non-residents and adding the deaths of residents which occurred in other districts, was 385. This figure is very slightly higher than in the previous year. The crude death rate for the year is 11.77 per 1,000 estimated population and the corrected death rate is 10.94 per 1,000 estimated population. As usual, heart disease was the most frequent cause of death, 120 deaths being attributed to all forms of heart disease. The number of cancer deaths was 68 giving a corrected death rate from all forms of cancer of 1.70 per 1,000 estimated population. The number of deaths from acute notifiable disease was 27, pneumonia causing 26 of these. There were no maternal deaths or deaths attributed to influenza.

**Housing.**

The provision of new dwellings, both by private persons and by the Corporation, continued, and the number of occupied dwellings was 9,473. The gross density of inhabited dwellings is



1,882 per acre. There are still many unsatisfied applications for houses before the Corporation.

In conclusion I should like to express my gratitude for the sympathy and consideration you have at all times given to matters laid before you.

I wish also to express my appreciation of the co-operation received from my colleagues (with special reference to the City Surveyor, to whom, as in previous years, I am indebted for the technical details regarding the waterworks, the sewage plant, and the public cleansing and refuse disposal arrangements) and for the loyalty, willingness, and enthusiasm of all members of my staff.

I have the honour to remain,

Your obedient servant, -

ROBERT T. THOMSON, M.A., M.B., Ch.B., D.P.H.

## SECTION A.

**STATISTICS AND SOCIAL CONDITIONS OF THE AREA**

Area ... ..	5,031 acres
Registrar-General's Estimate of Resident Population, 1954 :—	
(a) For calculation of Birth-Rate ...	32,720
(b) For calculation of Death-Rate ...	32,720
Number of Inhabited Houses ... ..	9,473
Rateable Value ... ..	£294,454
Sum represented by a penny rate ...	£1,162 0s. 9d.

## VITAL STATISTICS.

	<i>Males</i>	<i>Females</i>	<i>Total</i>
Live Births—Legitimate ... ..	249	229	478
Illegitimate ... ..	17	9	26
Still Births ... ..	4	8	12
Rate per 1,000 total (live and still) births ... ..			15.77
Death Rate per 1,000 of the estimated resident population			11.77
Death Rate of Infants under one year of age—			
All Infants per 1,000 live births ... ..			37.69
Legitimate Infants per 1,000 legitimate live births...			39.75
Illegitimate Infants per 1,000 illegitimate live births			Nil.

## INFANTILE MORTALITY

19 Infants (11 males and 8 female) died before reaching the age of 12 months. Of these 15 (10 males and 5 females) died before reaching the age of one month. (For causes of death see Table on page 31).

MATERNAL MORTALITY—Nil.

PUERPERAL MORBIDITY.—There were two cases of Puerperal Pyrexia.

**(The Chief Sanitary Inspector's Report is incorporated in Sections B, C and D).**

## SECTION B.

### **SANITARY CIRCUMSTANCES IN THE AREA**

#### WATER SUPPLY

During the year a further three horizontal pressure filters have been installed and put into operation, this being a further important step in the progressive substitution of this type of filter for the slow sand filters. It is estimated that the provision of a further seven similar horizontal pressure filters would put us in a position of being completely independent of the old method of filtration.

Following an informal inquiry by an inspector of the Ministry of Housing and Local Government, approval was subsequently received to obtain tenders for an important improvement at the Waterworks, involving the reconstruction of the old river intake, the introduction of a band screen, the provision of a new 21" pipe line from the intake to the lower pumping station and the replacement of the two 1914 electric pumping sets by modern submersible type pumps, and this work will be carried out during 1955.

The question of the substitution of diesel generation for the present method of electricity supply has received further consideration but no positive decision has yet been taken in this direction.

On the distribution side a considerable amount of work has again been entailed by the housing development programme and a summary of the mains extensions which have been carried out is as follows :—

Whitecross Housing Site—8", 6", 4" and 3" mains.

Newton Farm Estate (Part 11)—6", 4" and 3" mains'

Tupsley Housing Site—4" and 3" mains.

Belle Bank Estate—3" mains.

Sunnyside Estate—3" mains.

Golden Post Site—3" mains.

Fayre Oaks Estate—3" mains.

The above has involved the laying of a considerable number of new services and a further 62 services have been carried out for private development.

Further work which might be mentioned is the laying of 3" mains at the Cattle Market, new services at Red Hill Hostel and various amendments to the water supply at Foxley Estate.



The hydrant conversion scheme has resulted in 118 further ball hydrants being converted to the valve type hydrant under the arrangements with the County Council.

The waste water detection system has resulted in 123 notices having been served on premises where leaks have been detected.

During the year it has become apparent that the existing industrial demand is likely to show a marked increase in the not too far distant future. The principal effect has been to demonstrate that the maximum capacity of the Three Elms Booster has been reached and a scheme to meet this increasing industrial and residential demand will be prepared in 1955. This scheme will not only require additional trunk and distribution mains, but will involve major changes both at the Waterworks and at the Three Elms Booster.

## BACTERIOLOGICAL EXAMINATIONS

### CITY SUPPLY

Ninety-eight samples of the treated water were submitted for bacteriological examination.

Streptococci were absent from 10.0 ml. in all samples.

Coliform bacilli were absent from 100 ml. in all but 4 samples.

The reports on these samples are given below :—

<i>Sample No. Dated</i>	<i>Probable number of coliform bacilli, MacConkey 2 days 37°C. per 100 ml.</i>	<i>Approximate proportions of Faecal and Non-Faecal coli</i>	
		<i>Faecal coli per cent</i>	<i>Non-Faecal coli per cent</i>
4510/54 8th March, 1954	1	0	100
10349/54 9th June, 1954	3	67.7	33.3
10583/54 14th June, 1954	13	100	0
19248/54 8th November 1954	1	0	100

In all cases of unsatisfactory water samples, consultation with, and action by, the Waterworks Engineer resulted in the normal purity of the water being restored.

## R.A.F. SUPPLY, CREDEHILL

Thirteen check samples were taken throughout the year. Streptococci were absent in all thirteen samples, but coliform bacilli were present in three samples. Subsequent samples proved satisfactory.

The result of a chemical analysis is given below :

pH value = 7.0.

CHEMICAL ANALYSIS					<i>Parts per 1,000,000</i>
Free and Saline Ammonia	...	...	...	...	0
Albuminoid Ammonia	...	...	...	...	0.112
Chlorine in Chlorides	...	...	...	...	12.
Nitrogen in Nitrates and Nitrites	...	...	...	...	0.32
Oxygen absorbed from permanganate at 80°F. in					
4 hours	...	...	...	...	1.73
Total Solids dried at 100°C.	...	...	...	...	120
Nitrite	...	...	...	...	0.003
Free Chlorine	...	...	...	...	Absent
Appearance	...	...	...	Bright, few small particles	

The above results show that this water is chemically of good quality, and suitable for use as a public supply.

(Signed) BOSTOCK HILL AND RIGBY,  
*Public Analysts.*

All premises in the City, with the exception of 7 houses supplied from wells, receive the supply direct from the Corporation water mains.

## PUBLIC BATHS

The water in the swimming pool is filtered and chlorinated. As a routine, samples of the water are sent for bacteriological examination monthly. Streptococci were absent in all twelve samples, but coliform bacilli were present in one sample. Contact was made with the Baths Superintendent and subsequent samples proved satisfactory.

## SEWERAGE AND SEWAGE DISPOSAL

New sewerage activities have been confined to the requirements of new housing development at Tupsley, Whitecross and Panson, involving the provision of foul and in some cases, separate surface water sewers.

Apart from normal maintenance work the only other matter of any significance to report is that the sewer in Edgar Street, which has given a certain amount of trouble over the past few years, had to receive emergency attention involving a considerable amount of work at the junction with Canonmoor Street but the whole matter has now been remedied.

Probably the most important matter affecting sewerage was the local inquiry by an inspector of the Ministry of Housing and Local Government into the Northern Area Sewer proposals, and in December, after further technical discussions with the Minister's Officers, approval to the scheme was received from the Minister and authority to invite tenders for the first section was given. It is anticipated that these tenders will be obtained and the work commenced during 1955.

So far as sewage disposal is concerned, there have been no major developments and the works have functioned satisfactorily during the year.

### CLOSET ACCOMMODATION

Particulars of types and usage of Sanitary Conveniences at dwellings and other premises :—

Number of dwellings using pail closets	...	...	46
Number of other premises using pail closets	...	...	8
Number of dwellings with one W.C. to two houses	...	...	138
Number of dwellings with one W.C. to three or more houses	...	...	63

The premises using the conservancy system are not served by the City sewerage system.

All other premises in the City are provided with water closets and in the case of dwellings have separate use of a convenience.

In the main the houses having common conveniences are old properties and may be subject to action under the Housing Acts.

There are no waste water closets in the City.

### PUBLIC CLEANSING AND SALVAGE

Apart from the fact that the reconstructed disposal plant has worked satisfactorily, there is nothing to report in connection with either the collection or disposal of refuse except to say that our anticipated increase in the quantity of tins recovered at the Refuse Destructor has been justified. It is also encouraging to report that the waste paper market has shown a stability which had hitherto been absent.

The Kitchen Waste plant has continued to give complete satisfaction, but during the year the biggest source of supply for kitchen waste was lost by the fact that the Credenhill R.A.F. Camp found other means of disposal. This has resulted in a considerable reduction in the revenue accruing from this source but there has been a reduction in the cost of collection and processing. Some uncertainty in the market for the disposal of this product has suggested that, in some respects, the loss of the Credenhill source of supply has not been a disadvantage.



## HOUSING

The number of dwelling units completed during 1954 has comprised 205 by the Local Authority (including 10 for sale and the conversion of 9 flats at Red Hill), and 47 by private enterprise.

## SANITARY INSPECTION OF THE AREA

The number and nature of inspections made during the year :—

Nuisances (including inspections of drainage, sewers, sanitary conveniences and dustbins) ...	1,098
National Assistance Act ... ..	2
Housing, General ... ..	463
Caravans, Tents, Vans and Sheds ... ..	97
Infectious Disease and Food Poisoning ... ..	107
Factories Act ... ..	403
Outworkers ... ..	14
Food Premises ... ..	792
Unsound Food ... ..	265
Ice-cream Premises ... ..	112
Milk and Dairies Regulations ... ..	254
Milk (Special Designations) Regulations ... ..	136
Milk Sampling for Biological Examination ... ..	19
Food and Drugs Act (Sampling) ... ..	191
Food Vehicles ... ..	12
Cinemas and Licensed Premises ... ..	73
Slaughterhouse ... ..	614
Offensive Trades ... ..	8
Public Conveniences ... ..	154
Verminous Premises ... ..	26
Smoke Observations and Inspections ... ..	22
Stables and Piggeries ... ..	1
Work Places ... ..	5
Shops Act ... ..	109
Water Sampling ... ..	214
Pest Control ... ..	81
River Pollution Prevention Act ... ..	3
Merchandise Marks Act ... ..	74
Rag Flock and Other Filling Materials Act ... ..	8
Explosives Act ... ..	51
Pet Animals Act ... ..	30
Heating Appliances (Fireguards) Act ... ..	31
Knackers Yards ... ..	9
Slaughter of Animals Act ... ..	4
Town Planning and Byelaws ... ..	3
Miscellaneous ... ..	320

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5,805

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The following table shows the number of notices served and complied with :—

### NOTICES SERVED

<i>Statute</i>	<i>Notices not complied with at end of 1953</i>	<i>Notices served during 1954</i>		<i>Complied with during 1954</i>	<i>Notices not complied with at end of 1954</i>
		<i>Statutory</i>	<i>Informal</i>		
Public Health Act ...	24	30	225	262	17
Factories Act ...	4	80	—	67	17
Shops Act ...	—	—	37	33	4
Hereford Corp. Act...	—	24	6	30	—
Food and Drugs Act	6	—	113	108	11
Milk and Dairies Regs.	1	—	14	15	—
Public Health (Meat) Regs.	—	—	6	6	—
	35	134	401	521	49
		535			

### NUISANCES AND DEFECTS FOUND

#### HEREFORD CORPORATION ACT, 1936

Choked Drains ... 30

#### PUBLIC HEALTH ACT, 1936

Public Sewers Stopped Up ... 17

Drainage Defects ... 40

Defects to Sanitary Conveniences ... 43

Other Nuisances ... 15

Lack of proper Dustbins ... 74

Housing Defects ... 61

Excessive Emission of Black Smoke or Grit ... 1

#### FOOD AND DRUGS ACT, 1938

Contravention of Sec. 13 and Byelaws ... 132

Ice Cream (Heat Treatment etc.) Regulations  
1947 ... 5

Public Health Meat Regulations, 1924 ... 6

#### MILK AND DAIRIES REGULATIONS, 1949

Contraventions of Regulations ... 14

#### FACTORIES ACT, 1937

Contraventions of Part 1 ... 86

#### SHOPS ACT, 1950

Contraventions of Sec. 38 ... 16

Failing to exhibit proper notices or to comply  
with closing hours ... 21



## PUBLIC CONVENIENCES

An internal reconstruction of the Ladies' Convenience, Maylord Street, has provided three additional W.Cs. and has given direct light and ventilation to the attendant's compartment.

## FACTORIES ACT

## 1.—INSPECTORS FOR PURPOSES OF PROVISIONS AS TO HEALTH.

<i>Premises</i> (1)	<i>Number on Register</i> (2)	<i>Number of</i>		
		<i>Inspections</i> (3)	<i>Written Notices</i> (4)	<i>Occupiers Prosecuted</i> (5)
(i) Factories in which Sections 1, 2, 3, 4 and 6 are to be enforced by Local Authorities	45	45	7	—
(ii) Factories not included in (i) in which Section 7 is enforced by the Local Authority ...	251	344	72	—
(iii) Other Premises in which Section 7 is enforced by the Local Authority (excluding out-workers' premises) ...	12	14	1	—
Total ...	308	403	80	—

## 2.—DEFECTS FOUND.

<i>Particulars</i>  (1)	<i>Found</i>  (2)	<i>Remedied</i>  (3)	<i>Number of Defects</i>		<i>Prosecu- tions</i>  (6)
			<i>Referred</i>		
			<i>to H.M. Inspector</i>  (4)	<i>by H.M. Inspector</i>  (5)	
Want of Cleanliness (S.1) ...	—	—	—	—	—
Overcrowding (S.2) ...	—	—	—	—	—
Unreasonable Temperature (S.3) ...	—	—	—	—	—
Inadequate Ventilation (S.4)	1	—	—	—	—
Ineffective Drainage of Floors (S.6) ...	—	—	—	—	—
Sanitary Conveniences (S.7)					
Insufficient ...	7	5	—	—	—
Unsuitable or Defective	71	58	12	—	—
Not Separate for Sexes	1	—	1	—	—
Other Offences ...	6	—	—	6	—
Total ...	86	63	13	6	—

## 3.—OUTWORKS PREMISES.

Number of Premises	...	...	14
Number of Visits	...	...	14
Number of Notices	...	...	Nil

## SHOPS ACT

## SANITARY PROVISIONS

DEFECTS AND NUISANCES				<i>Found</i>	<i>Remedied</i>
Insufficient Ventilation	...	...		5	4
Unreasonably low temperature	...	...		3	3
Defective sanitary conveniences	...	...		20	17
Insufficient lighting	...	...	...	2	2
Lack of washing facilities	...	...	...	3	3
Insufficient sanitary conveniences	...	...	...	—	—
Total				33	29

## OTHER PROVISIONS

In two cases notices were served on the occupiers of shops not complying with Part 1 of the Act of the Hereford (Barber' and Hairdressers' Shops) Closing Order, 1949, relating to the—Weekly Half Holiday. Such notices were complied with.

Nineteen notices were served requiring the provision of the necessary forms and notices required by the Shops Act, 1950.

In all 109 inspections were made.

## OFFENSIVE TRADES

Number recorded in the City—

Fellmongers	...	...	...	...	...	2
Gut Scrapers	...	...	...	...	...	1
Rag and Bone Dealers	...	...	...	...	...	1
Number of Inspections	...	...	...	...	...	8
Nuisances found	...	...	...	...	...	2
Nuisances abated	...	...	...	...	...	2

## THE RAG FLOCK AND OTHER FILLING MATERIALS ACT

There are no premises in the City either registered or licensed for the manufacture, use or storage of such materials within the terms of the Act.

## CAMPING GROUNDS

## CARAVAN SITES

Caravan sites and camping grounds are governed by the Public Health Act, 1936, by the Hereford Corporation Act, 1936, by the Town Planning Act, 1947 and by Byelaws made under the two former Acts.

The Public Health Act and Byelaws control the sanitary provisions, water supply and infectious diseases. The Hereford Corporation Act and Byelaws define camping grounds and give power to license such sites within prescribed areas in the City, and to apply conditions of licence where granted. The Town Planning Act deals with the siting of caravans and general amenities.

During the year one camping ground to accommodate 50 caravans has been licensed. The Conditions of Licence were complied with.

In addition to the Camping Ground 30 Caravans are sited in different parts of the City.

Number of visits and inspections ...	...	...	97
Contraventions of Byelaws ...	...	...	4

## PREVENTION OF DAMAGE BY PESTS ACT, 1949

## RODENT CONTROL

## RECORD OF THE DEPARTMENT'S ACTIVITIES DURING THE YEAR

	Type of Property				(5) <i>Agri- cultural</i>
	Non- Agricultural				
	(1) <i>Local Authority</i>	(2) <i>Dwelling Houses</i>	(3) <i>All other (including Business Premises</i>	(4) <i>Total of cols (1) (2) &amp; (3)</i>	
(1) Number of Properties in Local Authority's Dist.	79	9546	1440	11,065	44
(2) Number of properties inspected as a result of:- (a) Notification ...	13	265	13	291	6
(b) Survey under the Act	—	16	130	146	—
(c) Otherwise (e.g., when visited primarily for some other purpose)	—	—	—	—	—
(3) Total inspections carried out — including re- inspections ...	41	281	496	818	9
(4) Number of properties inspected (in Sect. (2)) which were found to be infested by :— (a) Rats } Major ... (a) Rats } Minor ... (b) Mice } Major ... (b) Mice } Minor ...	— 11 — 3	— 217 — 27	— 141 — 2	— 369 — 32	— 6 — —
(5) Number of infested prop- erties (in Sect. (4)) treated by the Local Authority ...	14	244	143	401	6
(6) Total treatments carried out — including re- treatments ...	34	244	496	774	9

From the above table it will be seen that 2.56% of all dwellings and 9.93% of all business and industrial premises in the City were treated for infestations of rats or mice. Of agricultural properties (including piggeries) 13.64% were found to be infested.



It will be noted also that there were no major rat or mice infestations.

In addition to the above work the City sewers were treated twice during the year. Recordings of sewer treatments show that the infestations are very small.

## PESTS CONTROL

In addition to the service for rats and mice destruction the Department operates a service for the control of insect pests. Advice is given on methods to eradicate most known insects found in and about dwellings and other premises. Where requested, destruction of such pests is undertaken by the Health Department at agreed charges.

### SECTION C

#### HOUSING

##### NEW HOUSES

Number of new dwellings completed during the year :

By the Local Authority	...	...	...	205
By other bodies or persons	...	...	...	47

##### INSPECTION OF DWELLING HOUSES DURING THE YEAR

(1) Total number of dwelling houses inspected for housing defects (under Public Health and Housing Acts)	...	...	...	...	59
Number of inspections made for the purpose					236
(2) Number of dwelling houses (included under sub-head 1) which were inspected and recorded under the Housing Consolidated Regulations, 1925, and 1932	...	...			13
Number of inspections made for the purpose					65
(3) Number of dwelling houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	...	...			13
(4) Number of dwelling houses (exclusive of those referred to under 3) found not to be in all respects reasonably fit for human habitation	...	...	...	...	46

##### REMEDY OF DEFECTS DURING THE YEAR WITHOUT SERVICE OF FORMAL NOTICES

Number of dwelling houses rendered fit in consequence of informal action by the Local Authority or their officers	...	...	...	44
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# ACTION UNDER STATUTORY POWERS DURING THE YEAR

Proceedings under Sections 9, 10 and 16 of the Housing Act, 1936 :—

(1) Number of dwelling houses in respect of which notices were served requiring repairs	2
(2) Number of dwelling houses which were rendered fit after service of formal notices:—	
By owners ... ..	—
By Local Authority in default of owners	—

Proceedings under Public Health Acts :—

(1) Number of dwelling houses in respect of which notices were served requiring defects remedied ... ..	2
(2) Number of dwelling houses in which defects were remedied after service of formal notice :—	
By owners ... ..	2

Proceedings under Sections 11 and 13 of the Housing Act, 1936 :—

(1) Number of dwelling houses in respect of which Demolition Orders were made ...	11
(2) Number of dwelling houses demolished in pursuance of Demolition Orders ... ..	6

Proceedings under Section 12 of the Housing Act, 1936 :—

(1) Number of separate tenements or underground rooms in respect of which Closing Orders were made ... ..	2
(2) Number of separate tenements or underground rooms in respect of which Closing Orders were determined, the tenement or room having been rendered fit ... ..	—

In addition to the above :

Number of houses closed on an undertaking of the owner under Section 11 ... ..	—
Number of houses awaiting demolition under Demolition Orders ... ..	31
Number of houses demolished under Clearance Orders ... ..	6
Number of houses awaiting demolition under confirmed Clearance Order ...	18

369 families were rehoused by the Housing Manager during the year. In many cases overcrowding was relieved,

## CLEARANCE AREAS

No action has been taken under Section 25, Housing Act, 1936, during the year.

## SECTION D

**INSPECTION AND SUPERVISION OF FOOD****MILK SUPPLY**

Number of Dairy Farms in the City	...	...	12
Number of Milk Distributors	...	...	46
(a) Resident in the City	...	...	30
(b) Non-Resident in the City	...	...	16

**SPECIAL DESIGNATIONS**

Number of Retailers of Tuberculin Tested Milk	18
Number of Retailers of "Channel Islands" Milk	4
Number of Pasteurising Plants operating in the City	2
Number of Retailers of Pasteurised Milk	21
Number of Retailers of T.T. (Pasteurised) Milk	8

**PARTICULARS OF DESIGNATED MILK SAMPLING AND TESTING  
DURING THE YEAR**

<i>Class of Milk</i>	<i>No. of Samples Tested</i>	<i>Appropriate Tests</i>	<i>No. of Samples</i>	
			<i>Passed</i>	<i>Failed</i>
Pasteurised	84	Phosphatase	82	2
		Methylene Blue	78	6
Tuberculin Tested (Pasteurised)	20	Phosphatase	19	1
		Methylene Blue	19	1
Tuberculin Tested	15	Methylene Blue	10	5

All cases of failure to pass the Phosphatase or Methylene Blue tests are reported to the Area Milk Officer of the Ministry of Food in accordance with a statutory requirement.

**BIOLOGICAL EXAMINATION OF MILK**

Five samples were submitted to the Clinical Research Association Ltd., and twelve were submitted to the Public Health Laboratory, Worcester for biological tests for the presence of Tubercle Bacilli. All of the samples were reported negative to such infection.

## ICE CREAM

SUPERVISION AND CONTROL OF THE MANUFACTURE AND SALE  
OF ICE CREAM

## HEREFORD CORPORATION ACT, 1936

Number of persons and premises registered for the manufacture of ice-cream	...	...	9
Number of persons and premises registered for the sale of ice-cream	...	...	86

Seventy-three persons registered for the sale of ice-cream obtained their supplies from six manufacturers outside the City, thus only thirteen vendors sold ice-cream manufactured locally.

## ANALYSIS OF RESULTS OF SAMPLES TAKEN DURING 1953

## BACTERIOLOGICAL ANALYSIS

58 samples were submitted for bacteriological examination at the Public Health Laboratory at the County Hospital. These were subjected to the methylene Blue Reduction Test and graded accordingly.

Samples placed in Grades 1 and 2 are deemed satisfactory, those in Grades 3 and 4 unsatisfactory.

TABLE A

RESULTS OF ALL SAMPLES TAKEN IN THE CITY

<i>Type of Mix</i>	<i>Provisional Grade</i>				<i>Total</i>
	1	2	3	4	
Heat Treated ...	44(84.62%)	5 (9.62%)	3 (5.76%)	—	52
Cold ... ..	6 (100%)	—	—	—	6
Total ... ..	50(86.21%)	5 (8.62%)	3 (5.17%)	—	58
	55 (94.83%)		3 (5.17%)		

TABLE B

ANALYSIS OF RESULTS OF SAMPLES OF ICE CREAM MANUFACTURED  
WITHIN THE CITY

<i>Type of Mix</i>	<i>Provisional Grade</i>				<i>Total</i>
	1	2	3	4	
Heat Treated ...	16(88.88%)	1 (5.56%)	1 (5.56%)	—	18
Cold ... ..	6 (100%)	—	—	—	6
Total ...	22(91.66%)	1 (4.17%)	1 (4.17%)	—	24
	23 (95.83%)		1 (4.17%)		

TABLE C

ANALYSIS OF RESULTS OF SAMPLES OF ICE CREAM RETAILED IN BUT  
MANUFACTURED OUTSIDE THE CITY

<i>Type of Mix</i>	<i>Provisional Grade</i>				<i>Total</i>
	1	2	3	4	
Heat Treated ...	28(82.35%)	4 (11.76%)	2 (5.89%)	—	34
Cold ... ..	—	—	—	—	—
Total ...	28(82.35%)	4 (11.76%)	2 (5.89%)	—	34
	32 (94.12%)		2 (5.88%)		

TABLE D

COMPARATIVE RESULTS OF ALL SATISFACTORY SAMPLES FOR THE LAST  
THREE YEARS

<i>Year</i>	<i>All Samples</i>	<i>Local Manufacturers</i>	<i>External Manufacturers</i>
1952 ... ..	88.73%	83.7%	100.3%
1953 ... ..	90%	89.%	91%
1954 ... ..	94.83%	95.83%	94.1%



From the tables it will be noted that no samples were placed in Grade 4. This is an indication that the good bacteriological standard of these products is being maintained.

## HYGIENE IN RESTAURANTS, HOTEL KITCHENS AND LICENSED PREMISES

During the year 865 inspections of food premises were made and 132 notices drawing attention to contraventions of Section 13 of the Food and Drugs Act, 1938, were issued.

Licensed premfses were included in these inspections.

## MEAT AND OTHER FOODS

Number of butchers' shops in the City	...	38
Number of Preserved Food preparing premises registered under Private Act	... ..	35
Number of fish-fryers' premises in the City	...	11

There are no private slaughterhouses in the City and from June 30th, 1954, the Ministry of Food relinquished control of the Public Abattoir, which is now used jointly by the Fatstock Marketing Corporation and the local butchers. The provisions of the Slaughter of Animals Acts, 1933-54 are strictly enforced.

## FOOD TRANSPORT

The transport of food is controlled by the City Bye-law and the Public Health (Meat) Regulations, 1924. Constant supervision of vehicles was maintained, and 4 notices were served drawing attention to contraventions of the Regulations.

## INSPECTION OF MEAT AND OTHER FOODS

The following table sets out the number of carcasses inspected, together with particulars of carcasses and parts thereof condemned for Tuberculosis and other conditions at the City Abattoir, Stonebow Road.



	<i>Beeves</i>	<i>Calves</i>	<i>Sheep and Lambs</i>	<i>Pigs</i>
Number killed ... ..	4,128	1,304	21,063	10,164
Number Inspected ... ..	4,128	1,305	21,080	10,172
<i>All Diseases except Tuberculosis—</i>				
Whole Carcasses condemned ...	27	47	162	44
Carcasses of which some part or organ was condemned ...	1,623	68	1,935	1,521
Percentage of the number inspected affected with disease other than Tuber- culosis ... ..	39.97	8.81	9.95	15.38
<i>Tuberculosis only—</i>				
Whole carcasses condemned ...	13	1	—	—
Carcasses of which some part or organ was condemned ...	219	1	—	353
Percentage of the number in- spected affected with Tuber- culosis ... ..	5.62	0.01	—	3.47

The total number of carcasses examined during the year was 36,685. This is a increase of 8,478 on 1953 and 8,037 on 1952 figures.

#### EMERGENCY SLAUGHTER OF ANIMALS

Included in the above numbers of animals inspected are those of animals sent in for emergency slaughter :—

<i>Beeves</i>	<i>Calves</i>	<i>Sheep</i>	<i>Pigs</i>	<i>Total</i>
225	125	940	342	1,632

Comparative figures of animals from this source examined in 1953 show a decrease of 1,830.

#### WEIGHT OF DISEASED AND UNSOUND MEAT AND OFFAL CON- DEMNED :

				<i>Tons</i>	<i>cwts.</i>	<i>Qrs.</i>	<i>lbs.</i>
Home-killed—Meat	...	...	...	21	15	2	8½
Offal	...	...	...	19	15	3	13½
Imported Meat	...	...	...	0	0	3	0
				—	—	—	—
			Total	...	41	12	0
				—	—	—	—
							22

The whole of this meat was either destroyed at the refuse destructor or processed for animal feeding stuffs.

### TUBERCULOSIS ORDER, 1938

Three animals were notified and examined under this order during the year. In one case the lesions were generalised and the carcase and organs condemned.

### NOTIFICATION OF TUBERCULOSIS IN CALVES

One calf slaughtered at the City Abattoir was found on examination to be affected with Tuberculosis in a generalised form and reported to the Animal Health Division of the Ministry of Agriculture and Fisheries. The dam of the calf had been knackered prior to the slaughter of the calf.

### CYSTICERCUS BOVIS

Routine examination of all beeves was carried out and in 23 cases (.56%) cysts were found and the affected carcasses and offal despatched to Birmingham Abattoir (until decontrol, when arrangements were made for refrigeration at the Cold Stores, Grandstand Road, Hereford) for refrigeration at a temperature below 20°F. for 21 days in accordance with Ministry of Food Memo. 3/Meat.

### OTHER FOODS INSPECTED AND SURRENDERED

	tons	cwts.	qrs.	lbs.		tons	cwts.	qrs.	lbs.
Canned Meat ...	7	3	6½		Meat Products ...		2	18	
Canned Fish ...		2	13½		Wet Fish ...	1	3	17½	
Canned Milk ...	4	0	16		Cured Fish ...	2	0	7	
Canned Fruit ...	13	1	6		Shell Fish ...			18	
Canned Vegetables	2	0	24¼		Jam and Syrup	1	0	2¼	
Canned Soup ...	2	0	13		Dried Egg ...			½	
Strained Food ...			4¼		Orange Juice ...		1	14	
Bottled Fruit ...		2	19		Pickles and Sauces		2	15¾	
Dried Fruit ...	1	2	17		Bacon ...	12	2	12	
Dehydrated Vegetables			17½		Frozen Egg ...		3	12	
Sweets ...	1	0	0		Cereals ...		1	22¾	
Cheese ...	1	0	12¾		Rabbits ...		1	2	
Paste ...			8¾		Milk Powder ...			7	
Vegetables ...		1	0		Chicken Cutlets			12	
Cake Mixture ...			½		Fruit Juice ...			2½	
					Total ...	2	16	1	14¾

## ANALYSIS OF CAUSES OF CONDEMNATION OF CARCASSES

<i>Diseases</i>	<i>Beeves</i>	<i>Calves</i>	<i>Sheep</i>	<i>Pigs</i>	<i>Total</i>
Anaemia ... ..	—	1	1	1	3
Bruising (Extensive and Severe) ...	—	—	12	2	14
Decomposition ... ..	—	1	—	—	1
Emaciation ... ..	—	—	4	—	4
Erysipelas(Acute) ... ..	—	—	—	4	4
Fever ... ..	2	—	3	1	6
Gangrene ... ..	—	—	1	3	4
Immaturity ... ..	—	13	—	—	13
Jaundice ... ..	—	1	3	2	6
Johnes with Emaciation ... ..	4	—	—	—	4
Leukaemia ... ..	—	—	1	1	2
Mastitis (Acute Septic) ... ..	—	—	14	—	14
Metritis (Acute Septic) ... ..	2	—	—	—	2
Moribund ... ..	—	4	40	3	47
Abnormal Odour ... ..	—	—	2	—	2
Oedema (Generalized) ... ..	5	6	23	9	43
Oedema with Emaciation ... ..	3	9	26	—	38
Osteomyelitis ... ..	—	—	1	1	2
Peritonitis (Acute Septic) ... ..	—	2	7	3	12
Pleurisy (Acute Septic) ... ..	—	—	6	2	8
Pneumonia (Acute Septic) ... ..	2	2	6	1	11
Pyæmia (including Joint Ill) ... ..	3	4	8	7	22
Pyelo-Nephritis (Bilateral) ... ..	3	1	—	1	5
Septicaemia or Toxaemia ... ..	—	3	3	2	8
Tuberculosis (General) ... ..	13	1	—	—	14
Tumours (Multiple) ... ..	3	—	1	1	5
Total ... ..	40	48	162	44	294

## RECORD OF INSPECTIONS

Meat Inspections at Abattoir ... ..	688
Inspections of other Food ... ..	196
Inspections of Food Preparation Premises, etc., including Bakehouses ... ..	753
Inspections of Dairies and Cowsheds ... ..	94

## FOOD AND DRUGS ACT, 1938

## SAMPLING OFFICER'S REPORT, 1954

The following table shows the number and nature of the articles submitted to the Public Analyst during the year, and the results of the analysis :—

<i>Article</i>	<i>No. Submitted</i>		<i>No. Genuine</i>		<i>No. Unsatisfactory</i>	
	<i>Formal</i>	<i>Inf.</i>	<i>Formal</i>	<i>Inf.</i>	<i>Formal</i>	<i>Inf.</i>
Milk ... ..	32	—	29	—	3	—
Full Cream Sweetened Condensed Milk ... ..	—	3	—	3	—	—
Skimmed Sweetened Condensed Milk ... ..	—	2	—	2	—	—
Custard Powder ... ..	—	1	—	1	—	—
Choc-Cream ... ..	—	1	—	1	—	—
Mallow Creams ... ..	—	1	—	1	—	—
Cream Wafers ... ..	—	1	—	1	—	—
Chocolate Roll ... ..	—	1	—	1	—	—
Pork Sausage ... ..	8	—	5	—	3	—
Beef Sausage ... ..	9	—	9	—	—	—
Margarine ... ..	5	—	5	—	—	—
Ice cream ... ..	5	—	5	—	—	—
Thick Cream ... ..	—	2	—	2	—	—
Gin ... ..	5	—	5	—	—	—
Puff Pastry ... ..	2	—	2	—	—	—
Butter Sweets ... ..	—	3	—	3	—	—
Orange Drinks ... ..	—	3	—	2	—	1
Guernsey Cream ... ..	—	1	—	1	—	—
Christmas Pudding ... ..	5	—	5	—	—	—
Plum Pudding ... ..	1	—	1	—	—	—
Channel Islands T.T. Milk ...	2	—	2	—	—	—
	74	19	68	18	6	1
	93		86		7	

## NOTES ON THE UNSATISFACTORY SAMPLES

<i>No. of Sample</i>	<i>Article</i>	<i>Analyst's Report</i>	<i>Action taken</i>
23	Pork Susage	Deficient of 18% Meat	Warning to Vendor.
24	Pork Sausage	Deficient of 25% Meat	Warning to Vendor.
26	Pork Sausage	Deficient of 10% Meat	Warning to Vendor.
30	Milk	Deficient of 3% Fat	} Contact with Producer Samples Nos. 62 and 63 Satisfactory.
31	Milk	Deficient of 6.5% Fat	
41	Milk ("Appeal to Cow")	Deficient of 11.7% Fat	
82	Orange Drink	Excess Saccharin	Formal Sample No. 4/55.



## REGISTRATION OF WHOLESALE DEALERS IN MARGARINE

No. in the register ... .. 10

## SECTION E.

**PREVALENCE AND CONTROL OVER INFECTIOUS  
AND OTHER DISEASES**

## PATHOLOGICAL EXAMINATIONS

	<i>Positive</i>	<i>Negative</i>	<i>Total</i>
Ear, Nose and Throat Swabs :			
Diphtheria Bacilli (K.L.B.)	—	15	15
Haemolytic Streptococci...	16	37	53
Staphylococcus Aureus ...	—	—	—
Vincent's Angina ... ..	—	14	14
Staph. Pyogenes ... ..	4	5	9
Sputum :			
Tubercle Bacilli ... ..	22	—	22
Pleural Fluid :			
Tubercle Bacilli ... ..	3	—	3
Wound Swab :			
Salmonella ... ..	2	—	2
Faeces :			
For Occult Blood ... ..	—	—	—
For Dysentery Organisms and Diarrhoea ... ..	25	11	36
For Food Poisoning Organ- isms ... ..	20	27	47

## DISINFECTION

The following are particulars of disinfection of rooms and bedding after infectious or other diseases :—

	<i>Rooms</i>	<i>Bedding</i>
Scarlet Fever ... ..	6	6
Tuberculosis ... ..	8	3
Cancer ... ..	2	1
Miscellaneous ... ..	—	2
	—	—
	16	12
	—	—

Library books have been disinfected and returned for circulation.

Several lots of bedding have been destroyed on requests from the owners. When necessary, disinfectant was supplied,



The following table shows the incidence of infectious disease in the six wards of the City.

	<i>Bartonsham</i>	<i>Central</i>	<i>Holmer</i>	<i>St. Martins</i>	<i>St. Nicholas</i>	<i>Tupsley</i>	<i>Total</i>
Scarlet Fever...	—	1	3	13	—	1	18
Pneumonia ...	3	1	2	1	—	1	8
Erysipelas ...	1	—	—	1	1	—	3
Measles ...	—	2	—	—	—	7	9
Whooping Cough	23	10	14	10	1	31	89
Dysentery ...	1	—	—	9	—	—	10
Puerperal Pyrexia	—	—	—	1	—	1	2

## TUBERCULOSIS

No action was necessary during the year under the Public Health (Prevention of Tuberculosis) Regulations, 1925 (relating to persons suffering from Pulmonary Tuberculosis employed in the Milk Trade), or under Section 172 of the Public Health Act, 1936 (relating to the compulsory removal to Hospital of persons suffering from Tuberculosis).

### TUBERCULOSIS. NEW CASES AND MORTALITY DURING 1954

<i>Age Period</i>	<i>New</i>				<i>Deaths</i>			
	<i>Respiratory</i>		<i>Non-Respiratory</i>		<i>Respiratory</i>		<i>Non-Respiratory</i>	
	M.	F.	M.	F.	M.	F.	M.	F.
Under 1 year ...	—	—	—	—	—	—	—	—
1—5 years ...	—	—	—	—	—	—	—	—
5—15 years ...	1	—	1	—	—	—	—	—
15—25 years ...	2	3	1	—	—	—	—	—
25—35 years ...	1	2	1	—	—	1	1	—
35—45 years ...	1	2	—	1	—	—	—	—
45—55 years ...	5	—	—	—	3	—	—	—
55—65 years ...	4	—	—	—	3	—	—	—
65 and upwards	—	1	—	—	—	1	—	—
Age unknown ...	—	—	—	—	—	—	—	—
Totals ...	14	8	3	1	6	2	1	—

## PREVENTION OF BLINDNESS

No action has been taken under Section 176 of the Public Health Act, 1936,

## OPHTHALMIA NEONATORUM

<i>Cases</i>			<i>Vision Unimpaired</i>	<i>Vision Impaired</i>	<i>Total Blindness</i>	<i>Deaths</i>
<i>Notified</i>	<i>Treated</i>					
	<i>At Home</i>	<i>In Hospital</i>				
—	—	—	—	—	—	—

## SECTION F

**NATIONAL ASSISTANCE ACT, 1948**

## Section 47

This section deals with aged and/or infirm persons living under unsatisfactory conditions.

Three cases were brought to notice during the year. In the first case conditions were not sufficiently bad to justify action under the Act; in the second case the person was removed voluntarily to Alton Street, Ross, and in the third case the person moved of her own accord to a private nursing home and later to Burghill and Holme Lacy Hospital.



## AGES IN YEARS.

CAUSE OF DEATH	0	1	2	3	4	5	10	15	20	25	35	45	55	65	75	85	TOTALS		
	to 1	to 2	to 3	to 4	to 5	to 10	to 15	to 20	to 25	to 35	to 45	to 55	to 65	to 75	to 85	and up	M.	F.	T'l
1. Respiratory Tuberculosis ...	—	—	—	—	—	—	—	—	—	1	2	3	2	1	—	—	5	4	9
2. Other forms of Tuberculosis ...	—	—	—	—	—	—	—	—	—	1	—	—	—	—	1	—	1	—	1
3. Syphilitic Disease ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—
4. Diphtheria ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5. Whooping Cough ...	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
6. Meningococcal Infections ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7. Acute Poliomyelitis ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8. Measles ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9. Other infective and parasitic disease ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10. Malignant Neoplasm of Stomach ...	—	—	—	—	—	—	—	—	—	—	—	—	2	1	1	—	—	4	4
11. " " Lung, Bronchus ...	—	—	—	—	—	—	—	—	—	—	—	2	2	2	1	—	—	1	7
12. " " Breast ...	—	—	—	—	—	—	—	—	1	—	1	3	—	3	—	2	6	10	10
13. " " Uterus ...	—	—	—	—	—	—	—	—	—	—	—	1	—	1	2	—	—	4	4
14. Other Malignant and Lymphatic Neoplasm ...	—	—	—	—	—	—	—	—	—	—	2	3	10	10	17	1	15	28	43
15. Leukaemia, aleukaemia ...	—	—	—	—	—	—	—	—	—	—	—	2	—	1	—	—	3	—	3
16. Diabetes ...	—	—	—	—	—	—	1	—	—	—	—	1	—	1	1	—	1	3	4
17. Vascular lesions of nervous system ...	—	—	—	—	—	—	—	—	—	—	1	2	6	14	15	8	24	22	46
18. Coronary disease, angina ...	—	—	—	—	—	—	—	—	—	—	—	3	13	20	14	1	29	22	51
19. Hypertension with heart disease ...	—	—	—	—	—	—	—	—	—	—	—	2	5	3	4	—	6	8	14
20. Other heart disease ...	—	—	—	—	—	—	—	—	—	—	2	—	1	14	27	11	23	32	55
21. Other circulatory disease ...	—	—	—	—	—	—	—	—	—	—	1	1	2	5	9	1	15	4	19
22. Influenza ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
23. Pneumonia ...	3	—	—	—	—	—	—	—	—	—	—	2	5	5	8	3	11	15	26
24. Bronchitis ...	—	—	—	—	—	—	—	—	—	—	—	1	3	6	4	—	12	2	14
25. Other disease of respiratory system ...	2	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	2	1	3
26. Ulcer of stomach and duodenum ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	—	1	2	3
27. Gastritis, enteritis and Diarrhoea ...	—	—	—	—	—	—	—	—	—	—	1	—	1	—	1	—	2	1	3
28. Nephritis and Nephrosis ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	1	1
29. Hyperplasia of Prostate ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	2	—	2
30. Pregnancy, Childbirth, Abortion ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
31. Congenital Malformation ...	2	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	2	2
32. Other defined and ill-defined diseases ...	12	—	—	—	—	1	—	—	—	—	1	2	2	9	5	10	24	20	44
33. Motor vehicle accidents ...	—	—	—	—	—	1	—	—	—	—	—	—	—	1	1	—	1	2	3
34. All other accidents ...	—	—	—	—	—	—	—	—	—	—	1	1	—	2	2	—	—	7	8
35. Suicide ...	—	—	—	—	—	—	—	—	—	—	—	3	1	—	—	—	3	1	4
36. Homicide and operations of war ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TOTALS ...	19	—	1	—	—	2	3	—	—	3	12	32	55	99	120	39	187	198	385



DEATHS OF INFANTS UNDER ONE YEAR OF AGE

CAUSE OF DEATH	AGE IN DAYS										AGE IN MONTHS										M.	F.	T <sup>1</sup>
	0	1	2	3	4	5	6	7	14	21—28	1	2	3	4	5	6	7	8	9	10	11—12		
Prematurity ... ..	3	1	1	3	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	7	3	10
Congenital Malformation ...	—	—	—	—	1	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	2	2
Rickets ... ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congenital Heart Disease ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bronchitis and Broncho Pneumonia	—	—	—	—	—	—	—	—	—	—	—	—	1	—	1	1	—	—	—	—	1	2	3
Marasmus ... ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Whooping Cough ... ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cerebral birth trauma ...	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	1	—	1
Atelectasis ... ..	—	1	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	2	1	3
Total ...	3	2	2	3	2	—	—	—	2	1	—	—	2	—	1	1	—	—	—	—	11	8	19





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ADAMS & SONS (PRINTERS) LTD.,  
EAST STREET, HEREFORD.